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AMENDMENTS TO THE CLAIMS:

The following listing of claims replaces all prior versions of the claims and all prior listings of the claims in the present application.

1-33. (Canceled).

34. (Currently Amended) A method of assembling tyres for vehicle wheels, comprising:

disposing assembling a carcass structure on a primary drum;

disposing a belt structure on an auxiliary drum;

picking up the belt structure from the auxiliary drum to transfer the belt structure to a position coaxially centered with respect to the carcass structure;

shaping the carcass structure into a toroidal configuration;

applying a tread band onto the belt structure; and

applying a pair of sidewalls to the carcass structure on opposite sides of the carcass structure;

wherein the carcass structure comprises at least one carcass ply in engagement with annular anchoring structures axially spaced apart from each other,

wherein the belt structure comprises at least one belt layer,

wherein applying the tread band and applying the pair of sidewalls are cyclically carried out following a controlled rate on a first primary drum and a second primary drum,

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wherein a step of disposing the carcass structure on one of the first and second primary drums is carried out before completing assembling of a tyre on the other of the first and second primary drums, and

wherein at least one of applying the tread band and applying the pair of sidewalls is carried out by winding up at least one continuous strip element of elastomer material in contiguous circumferential coils around the carcass structure <u>disposed on said one of</u> the first and second primary <u>drums</u>.

- 35. (Previously Presented) The method of claim 34, wherein applying the tread band is carried out by winding at least one first continuous strip element of elastomer material, in a form of contiguous circumferential coils, around the belt structure.
- 36. (Previously Presented) The method of claim 34, wherein applying each of the pair of sidewalls is carried out by winding at least one second continuous strip element of elastomer material in contiguous circumferential coils around the carcass structure.
- 37. (Previously Presented) The method of claim 34, wherein applying the pair of sidewalls is carried out after the carcass structure has been shaped into the toroidal configuration.
- 38. (Previously Presented) The method of claim 34, wherein applying the pair of sidewalls is carried out after applying the tread band.

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39. (Previously Presented) The method of claim 34, wherein applying the pair of sidewalls is carried out before applying the tread band.

- 40. (Previously Presented) The method of claim 34, wherein the at least one strip element is fed from at least one delivery member disposed close to the tyre being assembled, simultaneously with winding up the at least one strip element around a geometric axis of the carcass structure.
- 41. (Previously Presented) The method of claim 40, wherein feeding the at least one strip element is carried out by extrusion through the at least one delivery member.
- 42. (Currently Amended) The method of claim 40, further comprising:
 giving said one of the first and second primary drum drums a circumferentialdistribution rotary motion around a geometric rotation axis of said one of the first and
 second primary drum drums, so that the at least one strip element is circumferentially
 distributed around the geometric axis of the carcass structure; and

carrying out controlled relative transverse-distribution displacements between said one of the first and second primary drum drums and the at least one delivery member, so that the at least one strip element forms a plurality of coils disposed in mutual side-by-side relationship;

wherein giving <u>said one of</u> the <u>first and second</u> primary <u>drums</u> the circumferential-distribution rotary motion and carrying out the controlled relative

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transverse-distribution displacements are carried out concurrently with winding up the at least one strip element.

- 43. (Currently Amended) The method of claim 42, wherein the controlled relative transverse-distribution displacements are carried out by movement of <u>said one</u> of the <u>first and second</u> primary <u>drums</u>.
- 44. (Currently Amended) The method of claim 42, wherein the circumferential-distribution rotary motion and the controlled relative transverse-distribution displacements are carried out by an actuating assembly engaging <u>said one of</u> the <u>first and second</u> primary <u>drums</u>.
- 45. (Currently Amended) The method of claim 34, wherein after transferring the belt structure to a position coaxially centered with respect to the carcass structure and before winding up the at least one strip element, said one of the first and second primary drum drums is moved towards at least one delivery member from a position in which said one of the first and second primary drum drums interacts with a transfer member shifting the belt structure onto the carcass structure.
- 46. (Currently Amended) The method of claim 40, further comprising:

 moving said one of the first and second primary drum drums away from the at

 least one delivery member to a position near devices for disengaging the tyre from said

 one of the first and second primary drum drums.

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47. (Currently Amended) The method of claim 34, further comprising:

transferring said one of the first and second primary drum drums to a region
between at least one first delivery member for applying the tread band and at least one
second delivery member for manufacturing the sidewalls.

48. (Currently Amended) The method of claim 34, wherein disposing assembling the carcass structure, shaping the carcass structure, applying the tread band, and applying the pair of sidewalls are cyclically carried out following a controlled rate on at least two the first and second primary drums, and

wherein disposing the carcass structure on a first primary drum is carried out before completing assembly of a tyre on a second primary drum.

49. (Currently Amended) The method of claim 34, further comprising wherein assembling the carcass structure comprises:

forming the carcass structure on a building drum; and transferring the carcass structure from the building drum to <u>said one of</u> the <u>first</u> and <u>second</u> primary <u>drum</u> <u>drums</u>.

50. (Currently Amended) The method of claim 49, wherein transfer of the carcass structure from the building drum to <u>said one of</u> the <u>first and second</u> primary drums is carried out after engagement of the belt structure with the carcass structure.

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51. (Previously Presented) The method of claim 49, wherein forming the carcass structure comprises:

associating auxiliary inserts for elastic support with the at least one carcass ply; wherein each of the auxiliary inserts comprises:

a radially internal edge disposed close to one of the annular anchoring structures; and

a radially external edge disposed close to a side edge of the belt structure.

- 52. (Previously Presented) The method of claim 34, further comprising:

 applying the belt structure to the carcass structure; and

 pressing the belt structure against the carcass structure to obtain better adhesion

 of the belt structure against the carcass structure.
- 53. (Previously Presented) The method of claim 34, further comprising: storing carcass structures in engagement with respective belt structures; wherein the storing is carried out before at least one of applying the tread band and applying the pair of sidewalls.
- 54. (Currently Amended) An apparatus for assembling tyres for vehicle wheels, comprising:

at least one a first primary drum;

a second primary drum;

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at least two actuating assemblies;

an auxiliary drum;

a transfer member;

at least one unit for applying a tread band onto a belt structure; and

at least one unit for applying a pair of sidewalls against opposite lateral walls of a

carcass structure;

wherein each of the at least one first and second primary drum drums is

arranged to support the carcass structure,

wherein the carcass structure comprises at least one carcass ply in engagement

with annular anchoring structures axially spaced apart from each other,

wherein the auxiliary drum is set to carry the belt structure,

wherein the transfer member moves the belt structure from the auxiliary drum to

the carcass structure,

wherein the at least one of the units unit for applying the tread band, the at least

one of the units unit for applying the pair of sidewalls, or the at least one of the units unit

for applying the tread band and the at least one of the units unit for applying the pair of

sidewalls comprises at least one delivery member, and

wherein the at least one delivery member lays down at least one continuous strip

element of elastomer material in contiguous circumferential coils on the carcass

structure,

wherein the first primary drum is engaged by a first actuating assembly,

wherein the second primary drum is engaged by a second actuating assembly,

and

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wherein the first and second primary drums interact sequentially with devices for disposing the carcass structure, the at least one unit for applying the tread band, and the at least one unit for applying the pair of sidewalls.

- 55. (Previously Presented) The apparatus of claim 54, wherein the at least one delivery member comprises at least one extruder.
 - 56. (Currently Amended) The apparatus of claim 54, further comprising: at least one actuating assembly;

wherein the at least one <u>of the first and second</u> actuating assembly <u>assemblies</u> is associated with the at least one delivery member,

wherein the at least one <u>of the first and second</u> actuating <u>assembly assemblies</u> drives the at least one <u>of the first and second</u> primary <u>drum drums</u> in rotation around a geometric axis of the at least one <u>of the first and second</u> primary <u>drum drums</u> so that the at least one strip element is circumferentially distributed onto the carcass structure, onto the belt structure, or onto the carcass structure and onto the belt structure, and

wherein the at least one <u>of the first and second</u> actuating <u>assembly assemblies</u> causes controlled relative transverse-distribution displacements between the at least one <u>of the first and second</u> primary <u>drum drums</u> and the at least one delivery member for distributing the at least one strip element to form the circumferential coils disposed in mutual side-by-side relationship.

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57. (Currently Amended) The apparatus of claim 56, wherein the at least one of the the first and second actuating assembly assemblies operates on the at least one of the first and second primary drum drums to move the at least one of the first and second primary drums relative to the at least one delivery member.

- 58. (Currently Amended) The apparatus of claim 57, wherein the at least one of the first and second actuating assembly assemblies is integrated into a robotized arm engaging the at least one of the first and second primary drums.
- 59. (Currently Amended) The apparatus of claim 57, wherein the at least one of the first and second actuating assembly assembles comprises:

a carriage movable along a guide structure between a first position and a second position;

wherein in the first position, the carriage supports the at least one <u>of the first and</u>

<u>second</u> primary <u>drums</u> near devices for disposing the carcass structure, and

wherein in the second position, the carriage supports the at least one <u>of the first</u>

<u>and second</u> primary <u>drums</u> near the at least one delivery member.

60. (Currently Amended) The apparatus of claim 56, further comprising:

devices for disposing the carcass structure on the at least one of the first and second primary drums;

wherein the at least one <u>of the first and second</u> actuating assembly <u>assemblies</u> is arranged to cause translation of the at least one <u>of the first and second</u> primary drum

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<u>drums</u> towards the at least one delivery member, starting from a position in which the at least one <u>of the first and second</u> primary <u>drums</u> interacts with the devices for disposing the carcass structure.

- 61. (Previously Presented) The apparatus of claim 54, further comprising: at least one first delivery member designed to form the tread band; and at least one second delivery member designed to form the pair of sidewalls.
- 62. (Canceled).
- 63. (Currently Amended) The apparatus of claim 54, further comprising:
 a building station for forming the carcass structure on a building drum; and
 devices for transferring the carcass structure from the building drum to the at
 least one of the first and second primary drum drums.
- 64. (Previously Presented) The apparatus of claim 63, wherein the devices for transferring the carcass structure comprise:

a storage magazine; and

an auxiliary transfer member;

wherein the auxiliary transfer member transfers the carcass structure from the building drum to the storage magazine.

65. (Previously Presented) The apparatus of claim 54, further comprising:

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devices for associating auxiliary elastic-support inserts with the at least one carcass ply;

wherein each of the auxiliary inserts comprises:

a radially internal edge disposed close to one of the annular anchoring structures; and

a radially external edge disposed close to a side edge of the belt structure.

66. (Currently Amended) The apparatus of claim 54, wherein the transfer member moves the belt structure from the auxiliary drum to the carcass structure disposed on the at least one of the first and second primary drums.